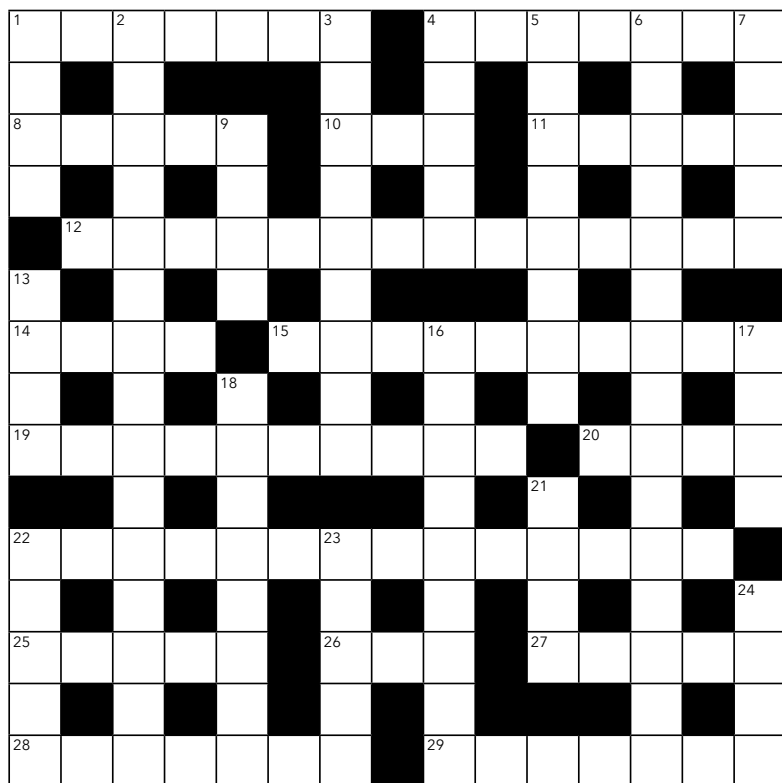


November 2024 crossword



November 2024 wordoku

				E												A
E			T	M				R	L							E
R					V			N								L
			E	S				L	N							M
																N
			M	E				A	R							R
N				T				S								S
S			A	R				M	V							T
							L									V

Solve this wordoku in the same way as a sudoku with letters instead of numbers (each of the nine letters in each row, column and nine-square cell). Once solved, one of the overall diagonals can be rearranged to give a drug used to treat high blood pressure.

Cryptic

Across

- Cabin I'm turning into transport (7)
- Reconstructed car uses a catalyst (7)
- Hang-up harness (5)
- Feel sorry for a road in Paris? (3)
- 17 down brought back in beer tins (5)
- Scientist afraid alchemy upset audience to begin with (7, 7)
- Physicist who's a drag in conversation? (4)
- Negative attitudes concerning bitter fruit? (4, 6)
- Space explorers coast around Saturn without Charlie (10)
- Inventor involved in decibel logging (4)
- Hands every inch over to the chemist (5, 9)
- Green in Gretna I've seen (5)
- Garland? Not Judy but Liebig oddly! (3)
- Doctor is in a desert (5)
- Takes in third rate singers surprisingly right away? (7)
- See 22 Down (7)

Down

- Convert resistance units to scale? How hard is that? (4)
- Nevertheless could be taking this lying down (15)
- Real bacon prepared in the city (9)
- Bunch of flowers – he afforded some (5)
- Contradictory detectives to leave someone like Mary? (8)
- Treat tenant's despair with first sleeping tablets? (15)
- Without top doctor, remedy can be abrasive (5)
- First holiday after hiring new radiochemist (4)
- Either way it's a pop group (4)
- Are you listening to heavy metal? (9)
- Last drunken sailor? (4)
- Reply about some endless materials (8)
- Counts up commercials on the radio (4)
- 22, 29 Across Chemist hires mansion abroad (5, 7)
- 17 down returns to second hand book (5)
- Particular part of the championship (4)

Quick

Across

- See 4 Across (7)
- 1 Down, 1 Across Astrophysicist and discoverer of pulsars (7, 4, 7)
- Disintegration of a cell by rupture of the cell wall or membrane (5)
- Total (3)
- The Earth's _____ atmosphere comprises the troposphere, stratosphere, mesosphere and thermosphere (5)
- Transformations of molecules into other forms (14)
- A potter's raw material (4)
- Compound formed from pectin degradation in fruits (6, 4)
- Form of colour blindness also known as Daltonism (10)
- _____ nitrite, used to treat heart conditions and cyanide poisoning (4)
- Vegetable rich in raffinose which can cause flatulence (8, 6)
- 25, 13 Down Asparagine for instance (5, 4)
- Unit of conductance (3)
- Measure of efficiency of a chemical reaction (5)
- Postpone (7)
- See 4 Down (7)

Down

- See 4 Across (4)
- Ohms (10, 5)
- Strong form of light (5, 4)
- 29 Across Scottish obstetrician, the first physician to demonstrate the anaesthetic effects of chloroform (5, 7)
- NaOH, KOH etc (8)
- Portable devices (6, 9)
- Geeks (5)
- Reservoir (4)
- See 25 Across (4)
- Saddleries (4, 5)
- Pharmacologist and physiologist who shared the 1936 Nobel prize in physiology or medicine for work on acetylcholine (4)
- Another name for an oral endoscope (8)
- Unit of absorbed radiation (4)
- Alloy of copper and zinc (5)
- Applied calcium oxide to agricultural land (5)
- Norse god whose son's name is celebrated in Element 90 (4)

Quick quiz:

- Which two elements are named after the Earth and the moon?
- Hydrogen, helium and what other element were produced by the big bang?
- Designed primarily for infrared astronomy, the James Webb Space Telescope was launched on 25 December 2021. Its primary mirror consists of 18 hexagonal mirror segments of which light metallic element coated with gold?
- Which noble gas is used in ion thrusters (also known as ion propulsion systems) for satellites and spacecraft?
- Which is the odd one out of these elements: cerium (Ce), copernicium (Cn), helium (He), palladium (Pd), plutonium (Pu), uranium (U)?

Solutions: 1. Tellurium and selenium 2. Lithium 3. Beryllium 4. Xenon 5. Copernicium, named after the astronomer Nikolaus Copernicus. All the other elements are named after heavenly bodies.

Entry form

There are four prize puzzles on this page: cryptic crossword; quick crossword; wordoku; and coronene. For each puzzle, a winner will be selected from all the correct entries received and awarded a £25 UK book voucher.

You can enter any or all of the prize draws, but each entrant is only eligible to win one of the individual puzzle prizes each month.

Please enter your details below and email a scan or photograph of this page with your completed entries to us by **18 November 2024**. The winners of this month's puzzles will be published in the December 2024 issue, along with the solutions.

Email: chemistryworld@rsc.org

Name

Address

Participants are advised that any personal information supplied will be processed in connection with this competition and only in accordance with our privacy statement (www.chemistryworld.com/privacy).

November 2024 coronene puzzle

Place each of the seven element symbols in one hexagon of coronene to spell three words, one horizontally and two diagonally. Plural words are allowed, but you may not switch the order of the letters in any two-letter symbols (eg, sodium must be Na, not aN). The four symbols in the central hexagon of each of this month's coronenes can be combined to spell the name of an element.

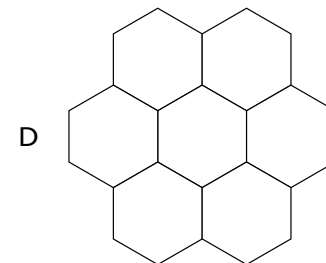
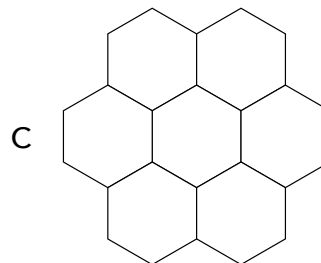
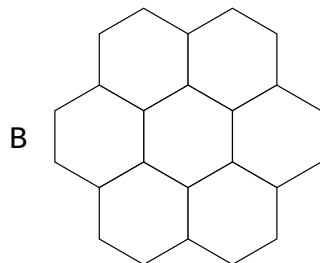
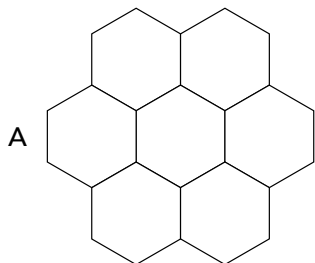
Elements:

A. Ar, Ca, In, N, Na, Re, S

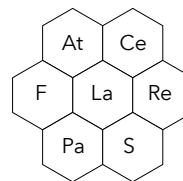
B. Al, Be, Cu, Er, He, Rb, S

C. Am, At, C, F, O, Pr, W

D. Ba, Bi, Ge, K, N, Re, Ts



For example:



Answers:

Atlas

Flare

Palace

October 2024 solutions and winners

Cryptic



Quick



Wordoku

The Italian-born chemist working in the area of applied optical materials was (Elena) GALOPPINI

Coronene puzzle

- A. Beards, Coarse, Flares
B. Bases, Casein, Resets
C. Conic, Genies, Knife
D. Puck, Racer, Scar

The compound running across was arsenic.

October winners

Coronene
J Wilson
Dorset, UK

Wordoku
Thomas Fallows
Urmston, UK

Cryptic crossword
John Wilkins
Bedford, UK

Quick crossword
Patrick Amani Katana
Njoro, Kenya